

Amendment to the Claims:

This listing of claims 1-5 will replace all prior versions, and listing of claims in the application.

1. (Previously Presented) A dual-stack optical data storage medium for at least read out using a focused radiation beam with a wavelength λ between 400 nm and 410 nm and an Numerical Aperture (NA) between 0.84 and 0.86, entering through an entrance face of the medium during read out, comprising:

a substrate with present on a side thereof:

a first stack of layers named L0 comprising a first information layer,

a second stack of layers named L1, comprising a second information layer, L1 being present at a position closest to the entrance face and L0 more remote from the entrance face than L1,

a radiation beam transparent spacer layer between L0 and L1,

a radiation beam transparent cover layer between the entrance face and L1

a transmission stack named TS0 with a thickness d_{TS0} and an effective refractive index n_{TS0} containing all layers between L0 and the entrance face,

a transmission stack named TS1 with a thickness d_{TS1} and an effective refractive index n_{TS1} containing all layers between L1 and the entrance face,

wherein the spacer layer has a thickness selected from the range 20-30 .mu.m, the

thickness d_{TS0} in dependence on the refractive index n_{TS0} and the thickness d_{TS1} in dependence on the refractive index n_{TS0} .

2. (Original) An optical data storage medium according to claim 1, wherein the maximum deviations of d_{TS0} and d_{TS1} from respectively the average values of d_{TS0} and d_{TS1} between a radius of 23 mm and 24 mm of the medium do not exceed $.+- .2 \mu m$ measured over the whole area of the medium.

3. (Original) An optical data storage medium according to claim 1, wherein $n_{sub.TS0}$ and $n_{sub.TS1}$ both have a value of 1.6 and the following conditions are fulfilled: $95 \mu m \leq d_{sub.TS0} \leq 105 \mu m$ and $70 \mu m \leq d_{sub.TS1} \leq 80 \mu m$.

4. (Original) An optical data storage medium according to claim 1, wherein the spacer layer thickness is $25 \mu m$ or substantially close to $25 \mu m$ and the cover layer thickness is $75 \mu m$ or substantially close to $75 \mu m$.

5. (Original) Use of an optical data storage medium as claimed in claim 1 for reliable data read out from both the first information layer and the second information layer.